

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* STN Columbus \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

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SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

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FILE 'RDISCLOSURE' ENTERED AT 09:47:37 ON 19 MAY 2003

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FILE 'USPATFULL' ENTERED AT 09:47:37 ON 19 MAY 2003

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FILE 'USPAT2' ENTERED AT 09:47:37 ON 19 MAY 2003

CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> s Ong, Beng S./in

'IN' IS NOT A VALID FIELD CODE

L1 140 ONG, BENG S./IN

=> s l1 and polythiophene#

L2 0 L1 AND POLYTHIOPHENE#

=> s polythiophene#

L3 4806 POLYTHIOPHENE#

=> s l3 and tetrahydrofuran

L4 1218 L3 AND TETRAHYDROFURAN

=> s l4 and diphenyl phosphinoethane?

L5 0 L4 AND DIPHENYL PHOSPHINOETHANE?

=> s l4 and (dichloro-nickel or dichloronickel)

L6 3 L4 AND (DICHLORO-NICKEL OR DICHLORONICKEL)

=> d 16 1-3

L6 ANSWER 1 OF 3 PCTFULL COPYRIGHT 2003 Univentio

**Full  
Text**

AN 2003001616 PCTFULL ED 20030115 EW 200301

TIEN LIGHT EMITTING MATERIAL AND ORGANIC LIGHT-EMITTING DEVICE

TIFR MATERIAU PHOTOEMETTEUR ET DISPOSITIF PHOTOEMETTEUR ORGANIQUE

IN TAKEUCHI, Masataka, Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP]; NAIJO, Shuichi, Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP]; ITO, Naoko, Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP]; SHIRANE, Koro, Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP]; IGARASHI, Takeshi, Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP];

TAKAHASHI, Yoshiaki, Corporate R & D Center, Showa Denko K.K., 1-1,  
 Ohnodai 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP];  
 KAMACHI, Motoaki, Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai  
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**PA** SHOWA DENKO K.K., 13-9, Shiba Daimon 1-chome, Minato-ku, Tokyo 105-8518,  
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 US only;  
 NAIJO, Shuichi, Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai  
 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP], for US only;  
 ITO, Naoko, Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai  
 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP], for US only;  
 SHIRANE, Koro, Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai  
 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP], for US only;  
 IGARASHI, Takeshi, Corporate R & D Center, Showa Denko K.K., 1-1,  
 Ohnodai 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP], for  
 US only;  
 TAKAHASHI, Yoshiaki, Corporate R & D Center, Showa Denko K.K., 1-1,  
 Ohnodai 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP], for  
 US only;  
 KAMACHI, Motoaki, Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai  
 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP], for US only  
**AG** OHIE, Kunihisa, Ohie Patent Office, Horiguchi No.2 Bldg. 7F, 2-6,  
 Nihonbashi-Ningyocho 2-chome, Chuo-ku, Tokyo 103-0013, JP  
**LAF** English  
**LA** English  
**DT** Patent  
**PI** WO 2003001616 A2 20030103  
**DS** W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ  
 DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS KE  
 KG KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ  
 OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG  
 US UZ VN YU ZA ZM ZW  
 RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
 RW (EAPO): AM AZ BY KG KZ MD RU TJ TM  
 RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
 RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
**AI** WO 2002-JP6139 A 20020620  
**PRAI** JP 2001-2001-186120 20010620  
 JP 2001-2001-188183 20010621  
 US 2001-60/301,844 20010702  
 US 2001-60/302,372 20010703  
 JP 2001-2001-241647 20010809  
 JP 2001-2001-263525 20010831  
 US 2001-60/317,115 20010906  
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 US 2001-60/330,815 20011031  
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 US 2001-60/337,160 20011210  
 US 2001-60/337,161 20011210  
 JP 2002-2002-80456 20020322  
 JP 2002-2002-90590 20020328  
**ICM** H01L051-30

L6 ANSWER 2 OF 3 USPATFULL

Full	String
Text	References

**AN** 2003:93810 USPATFULL

**TI** Luminescent element material, luminescent element, ethylene derivative  
 having n-containing 7-membered ring, and benzoazepine derivative

IN Sato, Tadahisa, Kanagawa, JAPAN  
 Okada, Hisashi, Kanagawa, JAPAN  
 PA FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)  
PI US 2003065171 A1 20030403  
AI US 2002-141001 A1 20020509 (10)  
RLI Division of Ser. No. US 1999-413848, filed on 7 Oct 1999, GRANTED, Pat.  
 No. US 6413657  
PRAI JP 1998-285508 19981007  
 JP 1999-86607 19990329  
 DT Utility  
 FS APPLICATION  
 LN.CNT 1326  
 INCL INCLM: 540/587.000  
 INCLS: 428/690.000; 428/917.000; 313/504.000; 313/506.000; 252/301.350  
 NCL NCLM: 540/587.000  
 NCLS: 428/690.000; 428/917.000; 313/504.000; 313/506.000; 252/301.350  
 IC [7]  
 ICM: C07D223-18  
 ICS: C09K011-06; H05B033-12  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 3 OF 3 USPATFULL

Full  Getting  
 Text  References

AN 2002:160473 USPATFULL  
 TI Benzoazepine derivative polymers as luminescent element materials  
 IN Sato, Tadahisa, Kanagawa, JAPAN  
 Okada, Hisashi, Kanagawa, JAPAN  
 PA Fuji Photo Film Co., Ltd., Kanagawa, JAPAN (non-U.S. corporation)  
PI US 6413657 B1 20020702  
AI US 1999-413848 19991007 (9)  
PRAI JP 1998-285508 19981007  
 JP 1999-86607 19990329  
 DT Utility  
 FS GRANTED  
 LN.CNT 1283  
 INCL INCLM: 428/690.000  
 INCLS: 428/500.000; 428/917.000; 526/259.000; 313/504.000; 313/506.000;  
 257/040.000; 257/103.000; 252/301.350  
 NCL NCLM: 428/690.000  
 NCLS: 252/301.350; 257/040.000; 257/103.000; 313/504.000; 313/506.000;  
 428/500.000; 428/917.000; 526/259.000  
 IC [7]  
 ICM: H05B033-12  
 ICS: C09K011-06; C08F026-06  
 EXF 428/690; 428/704; 428/917; 428/500; 428/523; 313/504; 313/506;  
 252/301.35; 257/40; 257/103; 526/259; 540/576  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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